

SUBSTRATE RECOMMENDATIONS

SCIGRIP® 58 is formulated for bonding a wide variety of thermoplastics, including polycarbonate, butyrate, PETG, anti static acrylic, ABS, PVC, polyurethane and foam board to themselves and one another.

BONDING RECOMMENDATIONS

SCIGRIP 58 is recommended for a variety of applications in the sign assembly industry, especially butyrate trim cap to polycarbonate in channel letter applications. It also has many uses in other plastic fabrication industries for bonding ABS to PETG.

GENERAL DESCRIPTION

SCIGRIP 58 is a fast curing, clear colorless, two-component, 100% reactive polyurethane adhesive that contains no volatile organic compounds (VOC). When mixed and applied, it polymerizes at room temperature to form high bonds within a few hours. The adhesive has excellent resistance to discoloration by UV light and has excellent lap shear and impact strength.

TYPICAL BOND STRENGTH[†]

Substrate Material	Aged Bond Strength, lbs/in ² (kg/cm ²)		
	24 Hours	72 Hours	1 Week
ABS	2150 (151)	2300 (162)	2500 (175.8)
PETG	1600 (113)	2350 (165)	2400 (168.7)
Polycarbonate	1950 (137)	2650 (186)	2900 (204)

[†]Substrate thickness: 0.25 inch (0.64 cm). Bond area: 1.0 in² (6.45 cm²)

ADHESIVE PROPERTIES AND CHARACTERISTICS @ 73°F (23°C)

COLOR:	Clear	FIXTURE TIME:	20 Minutes
VISCOSITY:	3000 ± 1000 cps	TIME TO REACH 80% OF ULTIMATE BOND STRENGTH:	2 Hours
REACTIVITY:	Gel time = 2 Minutes, 50 Gram mass	SPECIFIC GRAVITY:	Component A: 1.166 ± 0.004 Component B: 1.123 ± 0.004
TACK FREE TIME:	25 Minutes, .050 Inch (0.13 cm) film thickness		
WORKING TIME:	2 – 3 Minutes	COVERAGE:	10 mil: 3 sq ft/cartridge 20 mil: 1.5 sq ft/cartridge

DIRECTIONS FOR USE

SCIGRIP 58 is packaged in a twin-syringe cartridge with 50 ml total capacity that dispenses product in a 1:1 mix ratio. The package is designed for use with the MIXPAC 50 dispensing gun. The syringe and gun employ the supplied static mixing nozzle that mixes the product as it travels the length of the mixer from the syringe to the tip of the nozzle. See the mixing instructions included in the adhesive package.

- Be sure that both adhesive components are flowing freely from the cartridge before attaching the mixing nozzle. When using the mixing nozzle for successive applications, renew the adhesive in the nozzle by extruding and discarding a few inches of the material prior to application to the bonded assembly.
- If the mixing nozzle is left on the cartridge for a sufficient length of time without additional use, the adhesive may cure in the nozzle. If this happens, keep the mixing nozzle on the cartridge until you are ready to dispense more adhesive at which time you will need to put a fresh mixing nozzle on the cartridge. Be sure to discard the first few inches again.

NOTE: The viscosity of this product will allow it to flow between the polycarbonate letter and the butyrate trim cap in most channel letter applications. The application of a reinforcing bead is recommended.

AVAILABILITY

This product is available in 50 ml cartridge. For detailed information on mixing tip and dispensing gun, refer to the current Assembly Adhesive Selection Guide and Price List.

SHELF LIFE

Keep away from sources of heat, open flame, sparks, sunlight and moisture. Do not store in upper levels of non air-conditioned warehouses. Shelf life is one year in unopened pouch under these conditions.

QUALITY ASSURANCE

Each component of SCIGRIP 58 is carefully evaluated to assure that consistent high quality is maintained. Significant testing and evaluation of application and bonding characteristics are conducted on each batch. A batch identification code is stamped on each cartridge providing traceability of all materials and processes used to manufacture this adhesive.

SHIPPING

Shipping Information for One Liter and Above: Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. Hazard Class: 9. Identification Number: UN 3082. Packing Group: III. Label Required: Class 9.

Shipping Information for Less than One Liter: Proper Shipping Name: Consumer Commodity. Hazard Class: ORM-D.

SAFETY AND ENVIRONMENTAL PRECAUTIONS

SCIGRIP 58 is a reactive adhesive and is classified as a hazardous material. This product does not emit VOC. In conformance with the Federal Hazardous Substrates Labeling Act, the following hazards and precautions need to be recognized and followed.

**WARNING! CONTAINS ISOCYANATE. VAPOR HARMFUL.
MAY BE HARMFUL IF SWALLOWED. MAY IRRITATE SKIN OR EYES.**

Keep out of the reach of children. Do not take internally. Keep away from heat, spark, open flame and other sources of ignition. Contact with hot surfaces may produce toxic effects. Keep container closed when not in use. Store away from direct sunlight between 50°F – 80°F (10° – 27°C). Use only in adequate ventilation. Avoid breathing of vapors. Atmospheric levels should be maintained below established exposure limit values. See Sections II and VIII of Material Safety Data Sheet. If airborne concentrations exceed those limits, use a NIOSH-approved organic vapor cartridge respirator with full face-piece for single short-term exposure. For emergency and other conditions where short-term exposure guidelines may be exceeded, use an approved positive pressure self-contained breathing apparatus. Do not smoke, eat or drink while working with this product. Avoid contact with skin, eyes and clothing. May cause eye injury. Protective equipment such as gloves, safety goggles and impervious apron should be used. Carefully read Material Safety Data Sheet and follow all precautions. Contents are non-hazardous and not regulated. Do not use this product for other than intended uses.

FIRST AID

Inhalation: If overcome with vapors, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call physician.

Eye Contact: Flush with plenty of water for 15 minutes and call a physician.

Skin Contact: Wash skin with plenty of soap and water for at least 15 minutes. If irritation develops, get medical attention.

Ingestion: If swallowed, give 1 or 2 glasses of water or milk. Do not induce vomiting. Contact physician or poison control center immediately.

IMPORTANT NOTE

This product is intended for use by skilled individuals at their own risk. These suggestions and data are based on information we believe to be reliable. Users should verify by test that this product, as well as these methods, is suited to their application.

WARRANTY

IPS Corporation (IPS Corp.) warrants that all new IPS Corp. products shall be of good quality and free from defects in material and workmanship for the shelf life as indicated on the product. If any IPS Corp. product becomes defective, or fails to conform to our written limited warranty under normal use and storage conditions, then IPS Corp. will, without charge, replace the nonconforming product. However, this limited warranty shall not extend to, nor shall IPS Corp. be responsible for, damages or loss resulting from accident, misuse, negligent use, improper application, or incorporation of IPS Corp. products into other products. In addition, any repackaging of IPS Corp. products also shall void the limited warranty. IPS Corp. shall not be responsible for, nor does this limited warranty extend to, consequential damage, or incidental damage or expense, including without limitation, injury to persons or property or loss of use. Please refer to our standard IPS Corp. Limited Warranty for additional provisions.